

## ABSTRACT OF THE DISCLOSURE

A method, system and computer program product for assembling an optical module incorporates a far field pattern (FFP) optical measurement system and optionally a near field pattern (NFP) optical measurement system to obtain information about the axis and/or the divergent angle of light output from the optical elements to be assembled as part of the optical module. The optical elements include a light-emitting element, such as a laser diode, and at least one optical component, such as a collimating lens or a focusing lens. The system for assembling the optical module further includes a stage having the light-emitting element mounted thereon, a holding mechanism configured to hold and position the optical components to desired positions based on the measurements from the FFP and/or NFP optical measurement systems. A controller can control the stage, the holding mechanism and a fixing device configured to fix the positions of the optical elements once the optical elements are positioned in the desired positions.